CONTECH Silt Fence Controls Sediment
Uncontrolled silt deposits flowing from unprotected construction sites can create health, safety and environmental problems. Recent regulations, imposing virtually every construction site with immediate runoff-related sediment control.
CONTECH Silt Fence is a site-proven, effective and economical method to control runoff-carried sediment. Silt Fence offers a combination of UV resistance, strength and hydraulic properties to make it ideal for use in underground sediment control applications.

Synthetic Engineering Solutions with Geotextiles
CONTECH offers the broadest range of high-quality geotextiles available woven and non-woven. CONTECH Geotextiles, with their high strength and defined fibrillar qualities, have a solid history of long-term performance in applications involving separation, filtration, drainage and erosion control.

Woven Geotextiles
Woven geotextiles are generally preferred for applications that need high strength properties, low elastics critical filtration requirements and do not require planar flow. Since woven textiles, on a unit weight basis, achieve higher strengths at lower elongations than non-woven geotextiles, they are extremely efficient in strength priority applications.

Non-Woven Geotextiles
Non-woven geotextiles are needle-punched, continuous filament engineering fabrics that provide filtration and sub-planar flow, reduce hydrostatic pressure and prevent sub-surface migration. Typical applications include sub-structure drainage systems, roadway separation, hard armor underlayment and asphalt overlays.

CONTECH Offers a Variety of Other Erosion Control Solutions
Hard Armor Solutions for Channels, Streams and Shoreline Applications
The Amortec® family of products (including Amortec®, A-locks®, Amortrug® and Amortcast®) can be used to protect against erosion and scour in the most severe hydraulic conditions.

Modular Welded Wire Gabions for Erosion Control and Bank Stabilization
Modular Welded Wire Gabions are fabricated from steel wire mesh assembled into rectangular cells of varying size. They are filled with boulders or large stones. The cellular structure which provides low cost, long-term erosion control and cost savings.

Cellular Confinement Systems Create an Erosion Barrier
Cellular confinement systems employ a flexible HDPE matrix filled with native granular material to create an erosion barrier. These systems have been proven on a variety of construction, architectural, landscaping, and erosion control situations.

CONTECH™ Construction Products Inc. provides cost-effective solutions to soil erosion and sediment control problems.

CONTECH Silt Fence helps maintain overland sheet flow and filters out suspended soil particles, preventing downstream deposition and acting as a defense erosion control practice.

Erosion Control Solutions
CONTECH provides solutions for erosion control, shoreline protection and sediment control. Only CONTECH offers such a broad range of high-quality products for establishing vegetation on disturbed soils, protecting soil against high-impact stress, restricting soil displacement that can occur from post-vegetated soils and improving the performance of hard armor shoreline control systems. CONTECH’s geotextile products are specifically designed to offer fast erosion control and sediment control systems.

Temporary Degradable Blankets Protect Slopes and Channels When Developing New Vegetation

CONTECH temporary blankets—comprised of straw fiber, photodegradable polypropylene, excelsior fiber, straw/ coconut braid, or 100% coconut (0.25")—provide a soft, minimalist approach to erosion control until vegetation can take root. These blankets are ideal for low flow conditions and small channels. Although these materials are used primarily in areas where sediment control is needed, they can provide some erosion protection in shallow channels.

Permanent, Non-degradable Synthetic Turf Reinforcement Mats Stabilize Vegetated Slopes and Channels

When flow conditions or other site factor result in channel stress that exceeds the limits of natural vegetation alone, CONTECH’s turf reinforcement mats maintain the integrity of vegetated slopes and channels.

Temporary Degradable Blankets Applications from Mild-to-Steep Slopes and Mild Channels

SBR1 & SBR2: Straw blanket with silt fence on one or both sides. Intended for mild slopes and channels and are expected to last approximately 12-18 months.

CF2: Straw-coated blanket that functions as two layers of vegetation. Designed for moderate slopes and mild channels; they are expected to last approximately 24 months.

CF3: A coconut blanket between two layers of net. Designed for steep slopes and severe channels and should last up to 36 months.

CF4 & CF4R: further coconut blanket with silt fence on one or both sides. Intended for steep slopes and mid-channel channels and should normally last approximately 12-18 months.

EFB1: Excelsior blanket with silt fence on one or both sides—stitched biaxially. Designed for steep slopes and mid-channel channels and is expected to last approximately 24 months.

SFB1: Straw-coated blanket with silt fence on one or both sides. Intended for steep slopes and mid-channel channels and should last approximately 12 months.

SFB2: Straw-coated blanket with silt fence on one or both sides. Intended for steep slopes and mid-channel channels and should last approximately 18 months.

CFB2: Coconut blanket with silt fence on one or both sides. Intended for mid-channel channels and should last approximately 36 months.

CONTECH Fiber Mass Netting Functional and Source-Matched Water Quality and Soil Erosion Control Solutions

CONTECH’s turf reinforcement mats (TRMs) provide permanent erosion protection in severe and critical applications. In such environments, natural vegetation alone cannot reduce the service conditions without experiencing harmful disruptions. The hefty, three-dimensional open structure of CONTECH TRMs makes them product ideal for installing root-retaining seed strains and root-strengthening geocells. Their durability and resistance to severe environmental loads and provisions of the Clean Water Act.

CONTECH TEMPORARY DESIGNER GRASS BLANKETS

Table 1

<table>
<thead>
<tr>
<th>Erosion Control Products</th>
<th>Description</th>
<th>Max (Thinned)</th>
<th>Max (Unthinned)</th>
<th>Min (Thinned)</th>
<th>Min (Unthinned)</th>
<th>Min (Unthinned)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRM EFB 100% Excelsior 1</td>
<td>Erosion Control</td>
<td>12 oz/sq yd</td>
<td>24 oz/sq yd</td>
<td>10 oz/sq yd</td>
<td>20 oz/sq yd</td>
<td>10 oz/sq yd</td>
</tr>
<tr>
<td>TRM EFB 100% Excelsior 2</td>
<td>Erosion Control</td>
<td>12 oz/sq yd</td>
<td>24 oz/sq yd</td>
<td>10 oz/sq yd</td>
<td>20 oz/sq yd</td>
<td>10 oz/sq yd</td>
</tr>
</tbody>
</table>

CONTECH TRM ULTIMATE PERMISABLE VELOCITY

Table 2

<table>
<thead>
<tr>
<th>Flow Duration</th>
<th>Ultimate Permissible Velocity 1</th>
<th>Ultimate Permissible Velocity 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 minutes</td>
<td>12.2 100% polypropylene, braided, sted</td>
<td>12.2 100% polypropylene, braided, sted</td>
</tr>
<tr>
<td>60 minutes</td>
<td>9.6 100% polypropylene, braided, sted</td>
<td>9.6 100% polypropylene, braided, sted</td>
</tr>
<tr>
<td>120 minutes</td>
<td>6.8 100% polypropylene, braided, sted</td>
<td>6.8 100% polypropylene, braided, sted</td>
</tr>
</tbody>
</table>

1. Figures are based on laboratory testing and are approximate. Actual in-service functional longevity can vary widely due to extreme and diverse environmental factors. Contact your local CONTECH sales representative for additional guidance.

Erosion Control and Turf Reinforcement for Most Environments

Due to a wide range of engineering properties and performance capabilities, designers use custom match their project conditions to the most suitable CONTECH Turf Reinforcement Mats.

Grass Waterways, Channels and Slopes Applications

CONTECH TRM C-3S, C-4S and C-6D: These dense, three-dimensional webs of UV-stabilized polypropylene fibers, randomly oriented and stitched together between two nets to offer high strength and stability. As indicated in Table 2, these products vary in mass and strength for different levels of performance.

Channels and Slopes to Prevent Soil Erosion

CONTECH TRM C-5.1: This product is comprised of a dense three-dimensional web of biodegradable polypropylene fiber. Contact your local CONTECH sales engineer for additional guidance.

High-Volume Channels and Steep Slopes Applications CONTECH TRM HP-TRM: This very high-strength, resilient, dimensional pyramid-like projections. It is designed for permanent applications in channels and slopes where soil transportation and potential loss of control is a primary concern.

CONTECH TRMs reinforce vegetation to resist shear forces in high-flow channels. Vegetation TRMs can provide wall protection equivalent to 12" riprap under most environmental conditions.
CONTECH provides solutions for erosion control, shoreline protection, and sediment control. Only CONTECH offers such a broad range of high-quality products for establishing vegetation on disturbed soils, preventing soil against high-erosive stresses, restricting soil displacement and accomplishing erosion control from post-vegetated soils and improving the performance of hard-fabric systems. CONTECH's temporary erosion control and sediment control products are specifically designed to:

- Selected erosion blankets offer many applications, including:
  - Enhance water quality
  - Facilitate ground water recharge
  - Decompose to provide natural mulch
  - Provide root/stem reinforcement
  - Reduce soil moisture
  - Temperature fluctuations and retaining
  - Reduce runoff velocities
  - Protect slopes and channels when developing new vegetation.

CONTECH temporary blankets—constructed of straw, phytodegradable polypropylene, mulch, or straw—are made to last 12 months, or coconut blankets—prefer seedlings and later decomposition of natural materials. When constructing new vegetation or channels, when water flow or rainfall results in sheet erosion or washouts, CONTECH’s temporary turf reinforcement mats reinforce the stability of the original bare or sparsely covered earth, potentially preventing large-scale erosion.

CONTECH permanent erosion control mats reinforce natural vegetation in critical applications. CONTECH’s surface reinforcement mats (TRMs) provide permanent erosion protection in severe and critical applications. In such environments, natural vegetation alone cannot reduce the service functions without experiencing harmful disruptions. The heavy, three-dimensional open structure of CONTECH TRMs make these products ideal for enropping soil, retaining seeds and—upon germination—reinforcing roots and stems of developing plants. Vegetated slopes and channels act as natural filters to remove sediment, heavy metals, and toxic materials. By improving the performance characteristics of natural vegetation, CONTECH TRMs have become a cost-effective and popular green alternative to paving, riprap and concrete liners for slopes and channels. Additionally, paving green solutions and biogen-rewiring provide designers flexibility in complying with today’s stricter environmental laws and provisions of the Clean Water Act.

CONTECH’s turf reinforcement mats (TRMs) provide permanent erosion protection in severe and critical applications. In such environments, natural vegetation alone cannot reduce the service functions without experiencing harmful disruptions. The heavy, three-dimensional open structure of CONTECH TRMs make these products ideal for enropping soil, retaining seeds and—upon germination—reinforcing roots and stems of developing plants. Vegetated slopes and channels act as natural filters to remove sediment, heavy metals, and toxic materials. By improving the performance characteristics of natural vegetation, CONTECH TRMs have become a cost-effective and popular green alternative to paving, riprap and concrete liners for slopes and channels. Additionally, paving green solutions and biogen-rewiring provide designers flexibility in complying with today’s stricter environmental laws and provisions of the Clean Water Act.

CONTECH TRMs reinforce vegetation to resist shear forces in high-flow channels and do not rely on the structure of vegetation alone. Vegetative TRMs can provide protection equal to 12” riprap under most environmental conditions.
CONTECH Provides Solutions for Erosion Control, Shoreline Protection and Sediment Control

When environmental conditions go beyond the limits of natural or reinforced vegetation, CONTECH also offers a full line of bare soil solutions.

CONTECH Blankets and Turf Reinforcement Mats

CONTECH's turf reinforcement mats (TRMs) provide permanent erosion protection in severe and critical applications. Such environments, natural vegetation alone cannot endure the service conditions without experiencing harmful disruptions. The lofty, three-dimensional, open structure of CONTECH TRMs make these products ideal for entrapment of soil, water and silt.
CONTECH Silt Fence Controls Sediment
Uncontrolled soil deposit flowing from unprotected construction sites can create health, safety and environmental problems. Recent regulations, enforcing virtually every construction site today, mandate runoff-related sediment control. CONTECH Silt Fence offers a combination of UV resistance, strength and hydraulic properties to make this material ideal for use in sub-ground sediment control applications.

Synthetic Engineering Solutions with Geosynthetics
CONTECH offers the broadest range of high-quality geosynthetics available: woven and non-woven. CONTECH Geosynthetics, with their high strength and defined textile qualities, have a solid history of long-term performance and have a defined filtration and hydraulic property that make them ideal for use in sub-ground sediment control applications.

CONTECH Offers a Variety of Other Erosion Control Solutions
Hard Armor Solutions for Channels, Streams and Shoreline Applications
The Armortec family of products (including ArmorFlex®, A-lacs®, Armorwall® and ArmorLoc®) can be used to protect against erosion and scour in the most severe hydraulic conditions.

Modular Welded Wire Gabions for Erosion Control
Modular Welded Wire Gabions are fabricated from steel wire mesh assembled into rectangular cells of various size. They are filled with stones to form an unstable fill structure which provides low cost, long-term erosion control and cost-reduction.

Cellular Confinement Systems Create an Erosion Barrier
Cellular Confinement Systems employ a flexible HDPE matrix filled with native granular materials to create an erosion barrier. These systems have been proven on a variety of construction, architectural, landscaping, and erosion control situations.

NPDES Regulations Require Immediate Action
The building boom of the past 25 years has increased stormwater runoff volumes and peak flows. The direct result of this growth are the requirements of the National Pollutant Discharge Elimination Systems Act (NPDES) that mandates that stormwater runoff be controlled to reduce damage to municipal sewers and waterways. Systems Act (NPDES) that mandates that stormwater runoff be controlled to reduce damage to municipal sewers and waterways.

CONTECH Construction Products Inc. provides cost-effective solutions to add erosion and sediment control products.
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CONTECH Offers a Variety of Other Erosion Control Solutions

Hard Armor Solutions for Channels, Streams and Shoreline Applications
The ArmorMax® family of products (including ArmorFlex®, A-lads™, Armorland® and ArmorLoc™) can be used to protect against erosion and flow in the most severe hydraulic conditions.

Modular Welded Wire Gabions for Erosion Control and Bank Stabilization
Modular Welded Wire Gabions are fabricated from steel wire mesh assembled into rectangular cells of sizing that are filled with stones to form monolithic, flexible structures which provide low cost, long-term erosion control and cost-reduction.

Cellular Confinement Systems Create an Erosion Barrier
Cellular Confinement Systems employ a flexible HDPE matrix filled with native granular materials to create an erosion barrier. These systems have been proven on a variety of construction, architectural, landscaping, and erosion control situations.

CONTECH Construction Products Inc. provides cost-effective solutions to soil erosion and sediment control problems.